



PRODUCT OVERVIEW

UF

Fork sensors

SICK

Sensor Intelligence



FORK SENSORS

UF

The clear choice for detecting transparent labels

The UF ultrasonic sensors reliably detects labels and materials, regardless of printed design, transparency or surface characteristics. Unlike optical sensors, the UF3 relies on damping – a process where the thickness of a material determines the degree to which the sensor absorbs sound waves. A high level of positioning accuracy and stable response times make the fork sensor suitable for nearly any environment. Due to its small, compact metal housing, the UF can be used in harsh conditions and where space is limited. As a result, the UF3 can distinguish between labels located just 2 mm apart from one another on an adhesive tape. Applications include detecting transparent labels on transparent substrates, detecting labels with different printed designs or differentiating between single- and two-ply materials.

UF AT A GLANCE

BENEFITS

- Great flexibility: UF identifies labels reliably - regardless of whether they are transparent, opaque or printed
- Fast response times enable precise detection – even at high web speeds
- Teach-in function enables quick and easy commissioning
- The aluminum housing meets all requirements for use in harsh industrial conditions
- High process reliability: Ultrasonic technology prevents false detection, which may be caused by ambient light or shiny surfaces

FEATURES

- Detection of transparent, opaque or printed labels
- Unaffected by metallic foils and labels
- Fast response time of 250 µs
- Simple and accurate adjustment via teach-in button, or plus/minus buttons
- Rugged, IP 65 aluminum housing

TECHNICAL DATA OVERVIEW

Functional principle	Ultrasonic detection principle
Fork width	3 mm
Fork depth	69 mm
Response time	≤ 300 µs ≤ 250 µs
Connection type	Male connector M8, 4-pin Cable, 4-wire

Select the right product variant and accessories directly online. There you will also find example applications as well as downloads such as CAD dimensional models, operating instructions and software.

www.sick.com/UF



SICK AG
WALDKIRCH
GERMANY
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnership with our customers is more than just a promise: Together, we optimize productivity, elevate quality, protect health and safety, and sustain the future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions.

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